

IN THE SPECIFICATION

Please amend the specification as follows:

Please replace the paragraph beginning at page 5, line 12 with the following:

All transactions request that locks on data items be granted in [[a]] desired lock modes. For example, the reader may request a lock in shared (S) mode and a writer may request the same lock in an exclusive (X) mode. If S and X are defined not to be compatible, then the LM 3 guarantees that no writer has access permission. In other words, no X lock exists on the data item if a S lock has already been obtained on that data item. Thus a reader can read a consistent state of the data item after S lock has been obtained on that data item.

Please replace the paragraph beginning at page 10, line 13 with the following:

FIG. 7 describes in general terms how the ADL 9 in FIG. 1 operates. An activity is started by the transaction manager in block ~~70~~ 80. The activity is identified according to the activity bit map in block ~~72~~ 82. The data items referenced by the activity are locked according to the lock manager in block ~~74~~ 84. The locks for the activities are tracked by the lock manager in block ~~76~~ 86. As soon as an activity ends in block ~~78~~ 88, the locks for the group of data items associated with that activity are released by the lock manager in block ~~80~~ 100.